

F25

PRODUCTION OF DEODORIZING CONJUGATED NONWOVEN FABRIC

Patent Number: JP9291456
Publication date: 1997-11-11
Inventor(s): MAEDA MASAYO; TAJIRI KOZO
Applicant(s):: OJI PAPER CO LTD
Requested Patent: ☐ JP9291456
Application Number: JP19960100786 19960423
Priority Number(s):
IPC Classification: D04H3/10 ; A61F13/46 ; A61L9/01 ; B01J20/22 ; D01F2/00 ; D04H1/46 ; D06M13/217
EC Classification:
Equivalents:

Abstract

PROBLEM TO BE SOLVED: To provide a method for producing a conjugated nonwoven fabric that has excellent strength and flexibility, is easy to process, and has deodorizing performance of very high rate of deodorizing an atmosphere of basic or acidic gases.

SOLUTION: This method for producing a deodorizing conjugated nonwoven fabric comprises laying a cellulose fiber sheet on a span bonded nonwoven fabric composed of long synthetic fibers, mutually confounding synthetic fibers of the span bonded nonwoven fabric with cellulose fibers by a water jet confounding method to unify both types of fibers into a composite nonwoven fabric, carboxyalkylating the cellulose fibers of the composite nonwoven fabric in a reaction solution composed of a carboxyalkylating agent, alkali metal hydroxide, crosslinking agent and water to form carboxyalkylcellulose having carboxyl groups combined with an alkali metal in the form of a metal salt, immersing the composite nonwoven fabric in an aqueous acid solution to convert the carboxylic groups in the form of alkali metal salt into the acid type, and immersing the conjugated nonwoven fabric of acid-type carboxylic groups in an aqueous solution of a divalent copper compound to convert the carboxylic groups of the conjugated nonwoven fabric into those of copper salt type.